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Map-based cloning of a gene controlling omega-3 fatty acid desaturation in *Arabidopsis*.

Arondel V, Lemieux B, Hwang I, Gibson S, Goodman HM, Somerville C

MSU-DOE Plant Research Laboratory, Michigan State University, East Lansing 48824-1312.

A gene from the flowering plant *Arabidopsis thaliana* that encodes an omega-3 fatty acid desaturase was cloned on the basis of the genetic map position of a mutation affecting membrane and storage lipid fatty acid composition. Yeast artificial chromosomes covering the genetic locus were identified and used to probe a complementary DNA library. A complementary DNA clone for the desaturase was identified and introduced into roots of both wild-type and mutant plants by T plasmid-mediated transformation. Transgenic tissues of both mutant and wild-type plants had significantly increased amounts of the fatty acid produced by this desaturase.

PMID: 1455229 [PubMed - indexed for MEDLINE]

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